BUILDING RESEARCH INSTITUTE
FIRE RESEARCH DEPARTMENT

GROUP OF TESTING LABORATORIES
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FIRE TESTING LABORATORY (LP)

AB 023

REACTION TO FIRE CLASSIFICATION REPORT IN ACCORDANCE WITH EN 13501-1:2007

Contract no. NP-01122/P/2010/BP/U

Sponsor:	**TECO Srl Via Aperte 348/A San Felice S/N (MO) Italy**
Prepared by:	**Building Research Institute; 1, Filtrowa str. 00-611 Warszawa, Poland**
Product name:	**TECO Srl Cleanroom panels and accessories**
Classification report No.:	**NP-1122.1/10/BP**
Issue number:	**1 (version in English) Copy no. 1**
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This classification report consists of four pages and one enclosure and may only be used or reproduced in its entirety.

1. Introduction

This classification report defines the classification assigned to TECO Srl Cleanroom panels accessories in accordance with the procedures given in EN 13501-1:2007.

2. Details of classified product

2.1 General

The product is defined as wall and ceiling panels and accessories for clean rooms in the buildings .

2.2 Product description

The product, is described below.

Product description:

TECO Srl Cleanroom panels with mineral wool core. Facing coverings are made from steel covered by PVDF layer. The thickness of steel coverings is 0,6 mm or 0,7 mm. The core is connected with steel facings by polyurethane glue DIKEMA Madipur 10.170. The consumption of the glue is 220 g/m^2. Core material is a mineral wool with density ca. 90 kg/m^3. The thickness of panel is 45 mm. Accessories are aluminum profiles to connecting panels and finished joints between panels.

TECO Srl Cleanroom panels with mineral wool core and accessories are produced by TECO Srl.

3. Test reports & test results in support of classification

3.1 Test reports

Name of laboratory	Name of sponsor	Test report no.	Test method
Fire Testing Laboratory of ITB	TECO Srl	LP-1122/6.1-30/10	PN-EN ISO 1716
		LP-1122/6.1-29/10	
		LP-1122/34-62/10	PN-EN 13823
LNE	EPPF 6/14 rue la Perouse 75784 PARIS CEDEX 16 France	H030413 CEMATE/3	EN ISO 1716

3.2 Test results

Test method	Parameter	Number of tests	Results	
			Continuous parameter – mean (m)	Compliance with parameters
PN-EN ISO 1716 Mineral wool	PCS [MJ/kg]	3	1,12	(–)
PN-EN ISO 1716 PVDF paint	PCS [MJ/m^2]	3	0,750	(–)
PN-EN ISO 1716 Primer for PVDF paint	PCS [MJ/m^2]	3	0,392	(–)
PN-EN ISO 1716 Glue DIKEMA Madipur 10.170	PCS [MJ/kg]	3	12,38	(–)
	PCS [MJ/m^2]		2,72	(–)
PN-EN ISO 1716 Panel TECO Srl Cleanroom	PCS [MJ/kg]	-	0,78	(–)

PN-EN 13823 TECO Srl Cleanroom panel with thickness 45 mm with mineral wool core	FIGRA $_{0,2MJ}$	3	0,0	(–)
	FIGRA $_{0,4MJ}$		0,0	(–)
	LFS < edge		(–)	Y
	THR_{600s} [MJ]		0,2	(–)
	SMOGRA [m^2/s^2]		0,7	(–)
	TSP_{600s} [m^2]		37,2	(–)
	Flaming Droplets/particles		(–)	N
(–): do not concern Y: Yes N: No				

4 Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with EN 13501-1:2007.

4.2 Classification

The products, TECO Srl Cleanroom panel, in relation to its reaction to fire behaviour are classified:

A2

The additional classification in relation to smoke production is:

s1

The additional classification in relation to flaming droplets/particles is:

d0

The format of the reaction to fire classification for construction products excluding floorings and linear pipe thermal insulation products is:

Fire behaviour		Smoke production			Flaming droplets	
A2	**-**	**s**	**1**	**,**	**d**	**0**

i.e.: A2-s1,d0

Reaction to fire classification: A2-s1,d0

4.3 Field of application

This classification is valid for the following product parameters:

- TECO Srl Cleanroom panels and accessories described in point 2.2 of this classification report.

This classification is valid for the following substrates, fixing and air gaps:

- substrates with fire classifications A1 and A2 except plasterboards
- with or without air gaps

5 Limitations

This classification given remains valid as long as:

- test method remains unchanged,

- product standard or technical approval remains unchanged,

- constructional or material modifications do not exceed limits of the field of application defined in 4.3.

This classification report has been issued in two copies. Additional signed copies can be issued by Fire Research Department of ITB on the request of the report's owner only.

This classification document does not represent type approval or certification of the product.

SIGNED

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APPROVED

Deputy of Head of Fire Research Department

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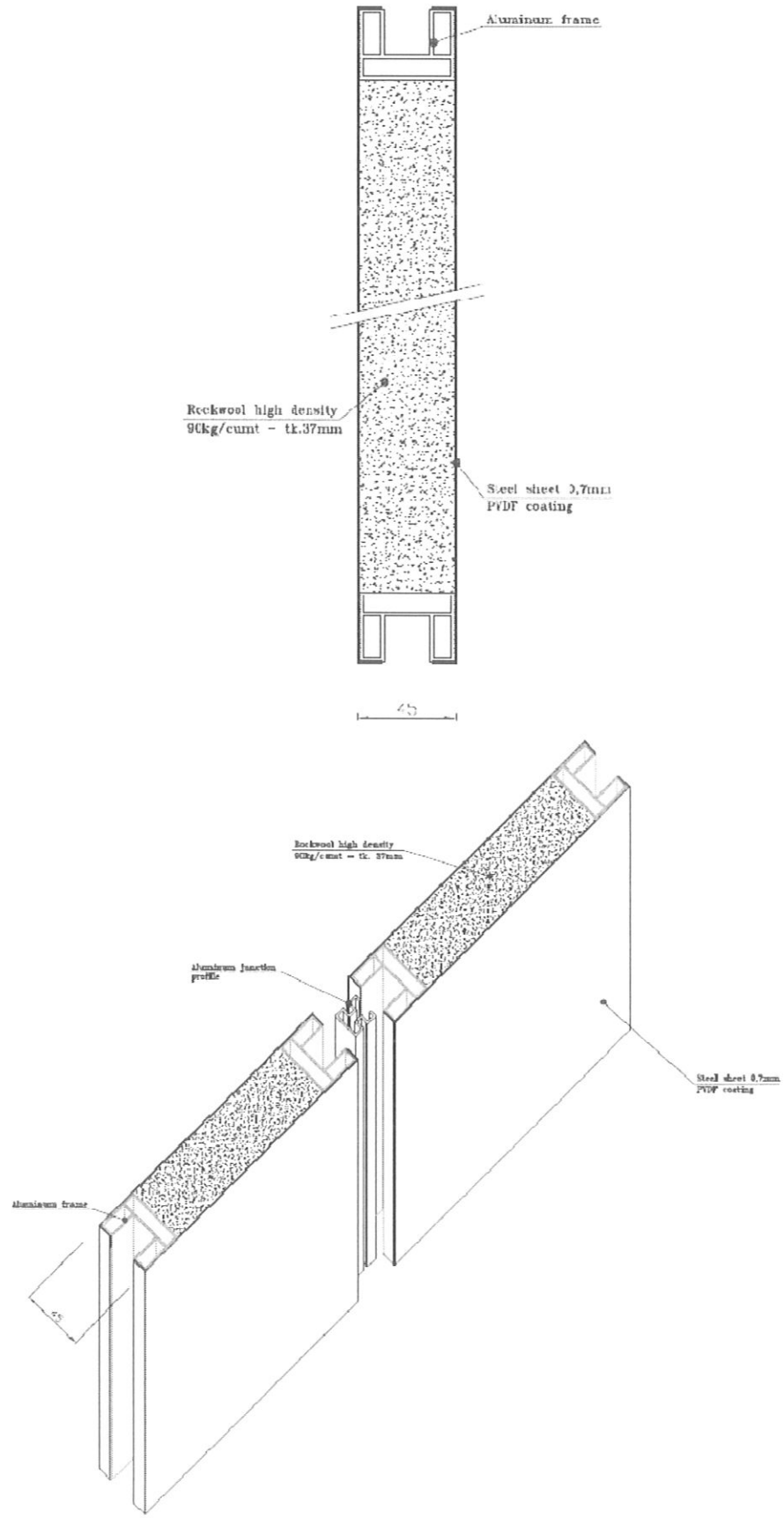

Fig. 1 Panel TECO Srl Cleanroom

(Figure from Customer)

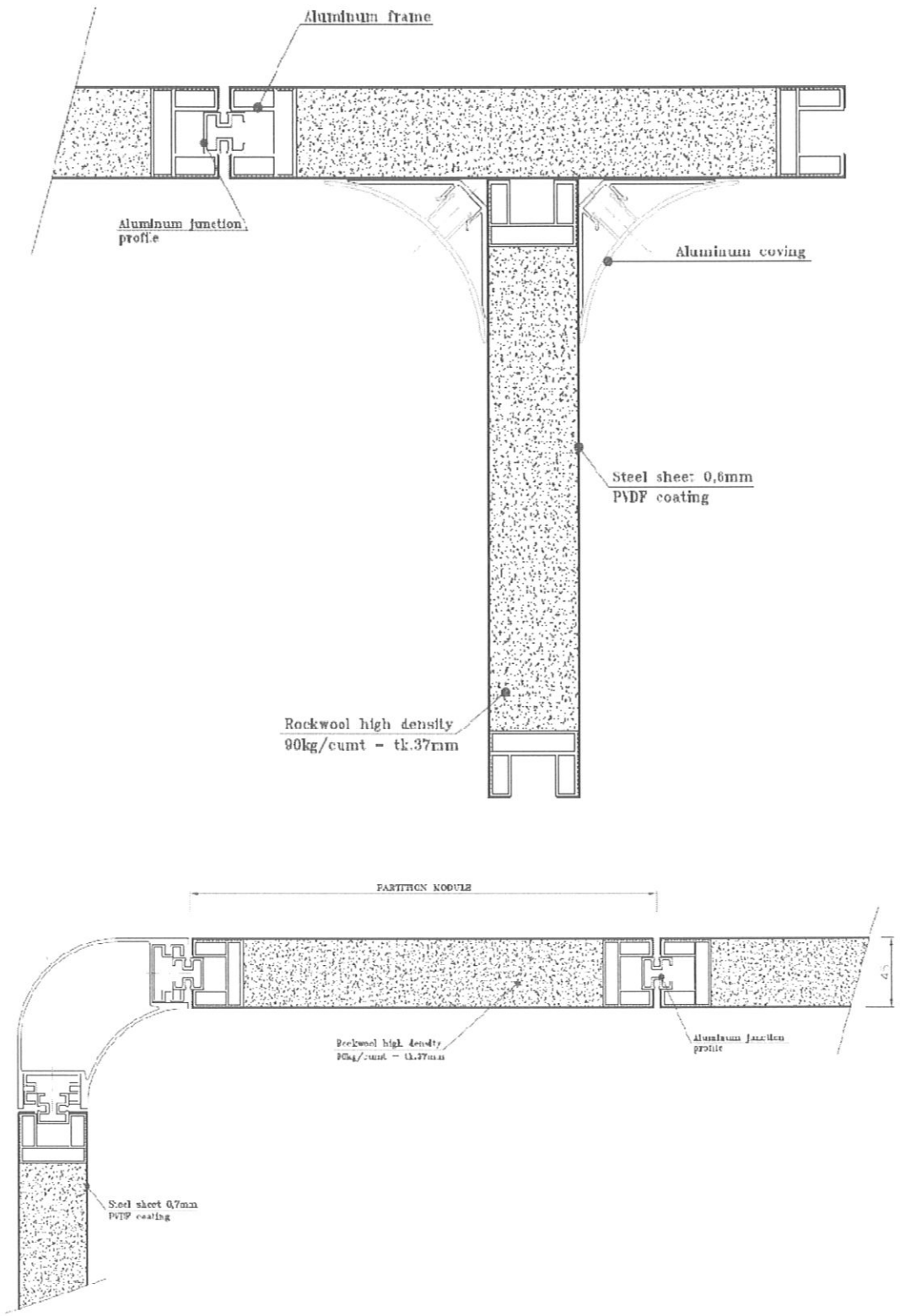

Fig. 2 Panel TECO Srl Cleanroom

(Figure from Customer)